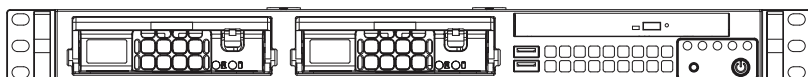


SUPERO

SC811 Chassis Series



SC811TQ-600B

SC811TQ-350B

SC811L-600B

SC811L-350(B)

SC811TQ-520(B)

SC811S-300(B)

SC811S-520(B)

SC811T-300(B)

SC811i-520(B)

SC811i-300(B)

SC811TQ-441B

SC811TQ-280(B)

SC811S-420(B)

SC811S-280(B)

SC811T-420(B)

SC811i-280(B)

SC811i-420(B)

SC811TQ-260(B)

SC811S-410(B)

SC811S-260(B)

SC811T-410(B)

SC811T-260(B)

SC811i-410(B)

SC811i-260(B)

USER'S MANUAL

The information in this User's Manual has been carefully reviewed and is believed to be accurate. The vendor assumes no responsibility for any inaccuracies that may be contained in this document, makes no commitment to update or to keep current the information in this manual, or to notify any person or organization of the updates. **Please Note: For the most up-to-date version of this manual, please see our web site at www.supermicro.com.**

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California Best Management Practices Regulations for Perchlorate Materials: This Perchlorate warning applies only to products containing CR (Manganese Dioxide) Lithium coin cells. "Perchlorate Material-special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate"

WARNING: Handling of lead solder materials used in this product may expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm.

Manual Revision 2.0a

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Preface

About This Manual

This manual is written for professional system integrators and PC technicians. It provides information for the installation and use of the SC811 1U chassis. Installation and maintenance should be performed by experienced technicians only.

This document lists compatible parts available when this document was published. Always refer to the our Web site for updates on supported parts and configurations.

Manual Organization

Chapter 1 Introduction

The first chapter describes the main features of the SC811 chassis. This chapter also includes contact information.

Chapter 2 Warning Statements for AC Systems

This chapter discusses warnings, precautions, and system safety. It is recommended that you thoroughly familiarize yourself with the safety precautions in this chapter before installing and servicing the chassis.

Chapter 3 System Interface

Refer to this chapter for details on the system interface, which includes the functions and information provided by the control panel on the chassis as well as other LEDs located throughout the system.

Chapter 4 Chassis Setup and Maintenance

Follow the procedures given in this chapter when installing and removing components, or reconfiguring your chassis.

Chapter 5 Rack Installation

Refer to this chapter for instructions to install the chassis into a rack. Follow the procedures given in this chapter when installing, removing or reconfiguring your chassis in a rack environment.

Appendix A Chassis Cables

Appendix B Power Supply Specifications

Appendix C SAS-810TQ Backplane Specifications

Appendix D SATA-810 Backplane Specifications

Note: For information on the CSE-SCA-004 SCSI backplane contact Supermicro's Technical Support department at www.supermicro.com.

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Notes

Chapter 1

Introduction

1-1 Overview

Supermicro's SC811 1U chassis features a unique and highly-optimized design. The chassis is equipped with high efficiency power supply in a 1U form factor.

Note: A complete list of safety warnings is provided on the Supermicro web site at http://www.supermicro.com/about/policies/safety_information.cfm.

1-2 Shipping List

Part Numbers

Please visit the following link for the latest shipping lists and part numbers for your particular chassis model www.supermicro.com.

SC811 Chassis Specs			
Mode	HDD	I/O Slots	Power Supply
SC811TQ-600B	2x SAS/SATA	1x FF	600W (Gold Level)
SC811L-600B	2x Fixed	1x FF	600W (Gold Level)
SC811TQ-520/ SC811TQ-520B	2x SAS/SATA	1x FF	520W
SC811S-520/ SC822S-520B*	2 U320 SCSI	1x FF	520W
SC811i-520/ SC811i-520B	2x Fixed	1x FF	520W
SC811TQ-441B	2x SAS/SATA	1x FF	440W (Platinum Level)
SC811S-420/ SC811S-420B*	2x U320 SCSI	1x FF	420W
SC811T-420/ SC811T-420B*	2x SATA	1x FF	420W

SC811 Chassis Specs			
Mode	HDD	I/O Slots	Power Supply
SC811i-420 / SC811i-420B*	2x Fixed	1x FF	420W
SC811S-410 / SC811S-410B*	2x U320 SCSI	1x FF	410W DC
SC811T-410 / SC811T-410B	2x SATA	1x FF	410W DC
SC811i-410 / SC811i-410B	2x Fixed	1x FF	410W DC
SC811TQ-350B	2x SAS/SATA	1x FF	350W (Gold Level)
SC811L-350B	2x Fixed	1x FF	350W (Gold Level)
SC811S-300 / SC811S-300B*	2x U320 SCSI	1x FF	300W
SC811T-300 / SC811T-300B	2x SATA	1x FF	300W
SC811i-300 / SC811i-300B	2x Fixed	1x FF	300W
SC811TQ-280 / SC811TQ-280B	2x SAS	1x FF	280W
SC811S-280 / SC811S-280B*	2x U320 SCSI	1x FF	280W
SC811i-280 / SC811i-280B	2x Fixed	1x FF	280W
SC811TQ-260 / SC811TQ-260B	2x SAS/SATA	1x FF	260W
SC811S-260 / SC811S-260B*	2x U320 SCSI	1x FF	260W
SC811T-260 / SC811T-260B	2x SATA	1x FF	260W
SC811i-260 / SC811i-260B	2x Fixed	1x FF	260W

* End of Life

1-3 Contacting Supermicro

Headquarters

Address: Super Micro Computer, Inc.
980 Rock Ave.
San Jose, CA 95131 U.S.A.

Tel: +1 (408) 503-8000

Fax: +1 (408) 503-8008

Email: marketing@supermicro.com (General Information)
support@supermicro.com (Technical Support)

Web
Site: www.supermicro.com

Headquarters

Address: Super Micro Computer, Inc.
980 Rock Ave.
San Jose, CA 95131 U.S.A.

Tel: +1 (408) 503-8000

Fax: +1 (408) 503-8008

Email: marketing@supermicro.com (General Information)
support@supermicro.com (Technical Support)

Web
Site: www.supermicro.com

Asia-Pacific

Address: Super Micro Computer, Inc.
3F, No. 150, Jian 1st Rd.
Zhonghe Dist., New Taipei City 23511
Taiwan (R.O.C)

Tel: +886-(2) 8226-3990

Fax: +886-(2) 8226-3992

Web
Site: www.supermicro.com.tw

Technical Support:

Email: support@supermicro.com.tw

Tel: +886-(2)-8226-3990

1-4 Unpacking the System

Inspect the box in which the chassis was shipped. If the chassis itself shows damage, file a damage claim with the carrier.

1-5 Returning Merchandise for Service

A receipt or copy of your invoice marked with the date of purchase is required before any warranty service will be rendered. You can obtain service by calling your vendor for a Returned Merchandise Authorization (RMA) number. When returning to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton, and mailed prepaid or hand-carried. Shipping and handling charges will be applied for all orders that must be mailed when service is complete.

For faster service, RMA authorizations may be requested online (<http://www.supermicro.com/support/rma/>).

Whenever possible, repack the chassis in the original Supermicro carton, using the original packaging material. If these are no longer available, be sure to pack the chassis securely, using packaging material to surround the chassis so that it does not shift within the carton and become damaged during shipping.

This warranty only covers normal consumer use and does not cover damages incurred in shipping or from failure due to the alteration, misuse, abuse or improper maintenance of products.

During the warranty period, contact your distributor first for any product problems.

1-6 Where to get Replacement Components

Although not frequently, you may need replacement parts for your system. To ensure the highest level of professional service and technical support, we strongly recommend purchasing exclusively from our Supermicro Authorized Distributors/System Integrators/Resellers. A list of Supermicro Authorized Distributors/System Integrators/Reseller can be found at: <http://www.supermicro.com>. Click the Where to Buy link.

Chapter 2

Standardized Warning Statements for AC Systems

2-1 About Standardized Warning Statements

The following statements are industry standard warnings, provided to warn the user of situations which have the potential for bodily injury. Should you have questions or experience difficulty, contact Supermicro's Technical Support department for assistance. Only certified technicians should attempt to install or configure components.

Read this appendix in its entirety before installing or configuring components in the Supermicro chassis.

These warnings may also be found on our web site at http://www.supermicro.com/about/policies/safety_information.cfm.

Warning Definition



Warning!

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

警告の定義

この警告サインは危険を意味します。

人身事故につながる可能性がありますので、いずれの機器でも動作させる前に、電気回路に含まれる危険性に注意して、標準的な事故防止策に精通して下さい。

此警告符号代表危險。

您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾的声明号码找到此设备的安全性警告说明的翻译文本。

此警告符號代表危險。

您正處於可能身體可能會受損傷的工作環境中。在您使用任何設備之前，請注意觸電的危險，並且要熟悉預防事故發生的標準工作程序。請依照每一注意事項後的號碼找到相關的翻譯說明內容。

Warnung

WICHTIGE SICHERHEITSHINWEISE

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.

BEWAHREN SIE DIESE HINWEISE GUT AUF.

INSTRUCCIONES IMPORTANTES DE SEGURIDAD

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES.

IMPORTANTES INFORMATIONS DE SÉCURITÉ

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

CONSERVEZ CES INFORMATIONS.

תקנון הצהרות אזהרה

הצהרות הבאות הן אזהרות על פי תקני התעשייה, על מנת להזהיר את המשתמש מפני חבלה פיזית אפשרית. במידה ויש שאלות או היתקלות בבעיה כלשהי, יש ליצור קשר עם מחלקת תמיכה טכנית של סופרמיקרו. טכנאים מוסמכים בלבד רשאים להתקין או להגדיר את הרכיבים.

יש לקרוא את הנספח במלוואו לפני התקנת או הגדרת הרכיבים במארוזי סופרמיקרו.

تحذير! هذا الرمز يعني خطر انك في حالة يمكن أن تتسبب في اصابة جسدية .
قبل أن تعمل على أي معدات، كن على علم بالمخاطر الناجمة عن الدوائر
الكهربائية
وكن على دراية بالممارسات الوقائية لمنع وقوع أي حوادث
استخدم رقم البيان المنصوص في نهاية كل تحذير للعثور ترجمتها

안전을 위한 주의사항

경고!

이 경고 기호는 위험이 있음을 알려 줍니다. 작업자의 신체에 부상을 야기 할 수 있는 상태에 있게 됩니다. 모든 장비에 대한 작업을 수행하기 전에 전기회로와 관련된 위험요소들을 확인하시고 사전에 사고를 방지할 수 있도록 표준 작업절차를 준수해 주시기 바랍니다.

해당 번역문을 찾기 위해 각 경고의 마지막 부분에 제공된 경고문 번호를 참조하십시오

BELANGRIJKE VEILIGHEIDSinSTRUCTIES

Dit waarschuwings symbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij een elektrische installatie betrokken risico's en dient u op de hoogte te zijn van de standaard procedures om ongelukken te voorkomen. Gebruik de nummers aan het eind van elke waarschuwing om deze te herleiden naar de desbetreffende locatie.

BEWAAR DEZE INSTRUCTIES

Installation Instructions



Warning!

Read the installation instructions before connecting the system to the power source.

設置手順書

システムを電源に接続する前に、設置手順書をお読み下さい。

警告

将此系统连接电源前，请先阅读安装说明。

警告

將系統與電源連接前，請先閱讀安裝說明。

Warnung

Vor dem Anschließen des Systems an die Stromquelle die Installationsanweisungen lesen.

¡Advertencia!

Lea las instrucciones de instalación antes de conectar el sistema a la red de alimentación.

Attention

Avant de brancher le système sur la source d'alimentation, consulter les directives d'installation.

יש לקרוא את הוראות התקנה לפני חיבור המערכת למקור מתח.

اقرأ إرشادات التركيب قبل توصيل النظام إلى مصدر للطاقة

시스템을 전원에 연결하기 전에 설치 안내를 읽어주시십시오.

Waarschuwing

Raadpleeg de installatie-instructies voordat u het systeem op de voedingsbron aansluit.

Circuit Breaker



Warning!

This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 250 V, 20 A.

サーキット・ブレーカー

この製品は、短絡(過電流)保護装置がある建物での設置を前提としています。

保護装置の定格が250 V、20 Aを超えないことを確認下さい。

警告

此产品的短路(过载电流)保护由建筑物的供电系统提供,确保短路保护设备的额定电流不大于250V,20A。

警告

此產品的短路(過載電流)保護由建築物的供電系統提供,確保短路保護設備的額定電流不大於250V,20A。

Warnung

Dieses Produkt ist darauf angewiesen, dass im Gebäude ein Kurzschluss- bzw. Überstromschutz installiert ist. Stellen Sie sicher, dass der Nennwert der Schutzvorrichtung nicht mehr als: 250 V, 20 A beträgt.

¡Advertencia!

Este equipo utiliza el sistema de protección contra cortocircuitos (o sobrecorrientes) del edificio. Asegúrese de que el dispositivo de protección no sea superior a: 250 V, 20 A.

Attention

Pour ce qui est de la protection contre les courts-circuits (surtension), ce produit dépend de l'installation électrique du local. Vérifiez que le courant nominal du dispositif de protection n'est pas supérieur à :250 V, 20 A.

מוצר זה מסתמך על הגנה המותקנת במבנים למניעת קצר חשמלי. יש לוודא כי המכשיר המגן מפני הקצר החשמלי הוא לא יותר מ-250 V, 20 A

هذا المنتج يعتمد على معدات الحماية من الدوائر القصيرة التي تم تثبيتها في المبنى

تأكد من أن تقييم الجهاز الوقائي ليس أكثر من: 250V, 20A

경고!

이 제품은 전원의 단락(과전류)방지에 대해서 전적으로 건물의 관련 설비에 의존합니다. 보호장치의 정격이 반드시 250V(볼트), 20A(암페어)를 초과하지 않도록 해야 합니다.

Waarschuwing

Dit product is afhankelijk van de kortsluitbeveiliging (overspanning) van uw elektrische installatie. Controleer of het beveiligde apparaat niet groter gedimensioneerd is dan 220V, 20A.

Power Disconnection Warning



Warning!

The system must be disconnected from all sources of power and the power cord removed from the power supply module(s) before accessing the chassis interior to install or remove system components.

電源切斷の警告

システムコンポーネントの取り付けまたは取り外しのために、シャーシ内部にアクセスするには、

システムの電源はすべてのソースから切斷され、電源コードは電源モジュールから取り外す必要があります。

警告

在你打开机箱并安装或移除内部器件前,必须将系统完全断电,并移除电源线。

警告

在您打開機殼安裝或移除內部元件前,必須將系統完全斷電,並移除電源線。

Warnung

Das System muss von allen Quellen der Energie und vom Netzanschlusskabel getrennt sein, das von den Spg.Versorgungsteilmodulen entfernt wird, bevor es auf den Chassisinnenraum zurückgreift, um Systemsbestandteile anzubringen oder zu entfernen.

¡Advertencia!

El sistema debe ser disconnected de todas las fuentes de energía y del cable eléctrico quitado de los módulos de fuente de alimentación antes de tener acceso el interior del chasis para instalar o para quitar componentes de sistema.

Attention

Le système doit être débranché de toutes les sources de puissance ainsi que de son cordon d'alimentation secteur avant d'accéder à l'intérieur du châssis pour installer ou enlever des composants de système.

אזהרה !

יש לנתק את המערכת מכל מקורות החשמל ויש להסיר את כבל החשמלי מהספק לפני גישה לחלק הפנימי של המארז לצורך התקנת או הסרת רכיבים.

يجب فصل النظام من جميع مصادر الطاقة وإزالة سلك الكهرباء من وحدة امداد الطاقة قبل الوصول إلى المناطق الداخلية للهيكल لتثبيت أو إزالة مكونات الجهاز

경고!

시스템에 부품들을 장착하거나 제거하기 위해서는 새시 내부에 접근하기 전에 반드시 전원 공급장치로부터 연결되어있는 모든 전원과 전기코드를 분리해주어야 합니다.

Waarschuwing

Voordat u toegang neemt tot het binnenwerk van de behuizing voor het installeren of verwijderen van systeem onderdelen, dient u alle spanningsbronnen en alle stroomkabels aangesloten op de voeding(en) van de behuizing te verwijderen

Equipment Installation



Warning!

Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

機器の設置

トレーニングを受け認定された人だけがこの装置の設置、交換、またはサービスを許可されています。

警告

只有经过培训且具有资格的人员才能进行此设备的安装、更换和维修。

警告

只有經過受訓且具資格人員才可安裝、更換與維修此設備。

Warnung

Das Installieren, Ersetzen oder Bedienen dieser Ausrüstung sollte nur geschultem, qualifiziertem Personal gestattet werden.

¡Advertencia!

Solamente el personal calificado debe instalar, reemplazar o utilizar este equipo.

Attention

Il est vivement recommandé de confier l'installation, le remplacement et la maintenance de ces équipements à des personnels qualifiés et expérimentés.

אזהרה!

צוות מוסמך בלבד רשאי להתקין, להחליף את הציוד או לתת שירות עבור הציוד.

يجب أن يسمح فقط للموظفين المؤهلين والمدربين لتكوين واستبدال أو خدمة هذا الجهاز

경고!

훈련을 받고 공인된 기술자만이 이 장비의 설치, 교체 또는 서비스를 수행할 수 있습니다.

Waarschuwing

Deze apparatuur mag alleen worden geïnstalleerd, vervangen of hersteld door geschoold en gekwalificeerd personeel.

Restricted Area



Warning!

This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. (This warning does not apply to workstations).

アクセス制限区域

このユニットは、アクセス制限区域に設置されることを想定しています。

アクセス制限区域は、特別なツール、鍵と錠前、その他のセキュリティの手段を用いてのみ出入りが可能です。

警告

此部件应安装在限制进出的场所，限制进出的场所指只能通过使用特殊工具、锁和钥匙或其它安全手段进出的场所。

警告

此裝置僅限安裝於進出管制區域，進出管制區域係指僅能以特殊工具、鎖頭及鑰匙或其他安全方式才能進入的區域。

Warnung

Diese Einheit ist zur Installation in Bereichen mit beschränktem Zutritt vorgesehen. Der Zutritt zu derartigen Bereichen ist nur mit einem Spezialwerkzeug, Schloss und Schlüssel oder einer sonstigen Sicherheitsvorkehrung möglich.

¡Advertencia!

Esta unidad ha sido diseñada para instalación en áreas de acceso restringido. Sólo puede obtenerse acceso a una de estas áreas mediante la utilización de una herramienta especial, cerradura con llave u otro medio de seguridad.

Attention

Cet appareil doit être installée dans des zones d'accès réservés. L'accès à une zone d'accès réservé n'est possible qu'en utilisant un outil spécial, un mécanisme de verrouillage et une clé, ou tout autre moyen de sécurité.

אזור עם גישה מוגבלת

אזהרה!

יש להתקין את היחידה באזורים שיש בהם הגבלת גישה. הגישה ניתנת בעזרת כלי אבטחה בלבד (מפתח, מנעול וכד').

تم تخصيص هذه الوحدة لتركيبها في مناطق محظورة .
يمكن الوصول إلى منطقة محظورة فقط من خلال استخدام أداة خاصة،
قفل ومفتاح أو أي وسيلة أخرى للأمان

경고!

이 장치는 접근이 제한된 구역에 설치하도록 되어있습니다. 특수도구, 잠금 장치 및 키, 또는 기타 보안 수단을 통해서만 접근 제한 구역에 들어갈 수 있습니다.

Waarschuwing

Dit apparaat is bedoeld voor installatie in gebieden met een beperkte toegang. Toegang tot dergelijke gebieden kunnen alleen verkregen worden door gebruik te maken van speciaal gereedschap, slot en sleutel of andere veiligheidsmaatregelen.

Battery Handling



Warning!

There is the danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions

電池の取り扱い

電池交換が正しく行われなかった場合、破裂の危険性があります。交換する電池はメーカーが推奨する型、または同等のものを使用下さい。使用済電池は製造元の指示に従って処分して下さい。

警告

電池更換不當會有爆炸危險。請只使用同類電池或製造商推薦的功能相當的電池更換原有電池。請按製造商的說明處理廢舊電池。

警告

電池更換不當會有爆炸危險。請使用製造商建議之相同或功能相當的電池更換原有電池。請按照製造商的說明指示處理廢棄舊電池。

Warnung

Bei Einsetzen einer falschen Batterie besteht Explosionsgefahr. Ersetzen Sie die Batterie nur durch den gleichen oder vom Hersteller empfohlenen Batterietyp. Entsorgen Sie die benutzten Batterien nach den Anweisungen des Herstellers.

Attention

Danger d'explosion si la pile n'est pas remplacée correctement. Ne la remplacer que par une pile de type semblable ou équivalent, recommandée par le fabricant. Jeter les piles usagées conformément aux instructions du fabricant.

¡Advertencia!

Existe peligro de explosión si la batería se reemplaza de manera incorrecta. Reemplazar la batería exclusivamente con el mismo tipo o el equivalente recomendado por el fabricante. Desechar las baterías gastadas según las instrucciones del fabricante.

אזהרה !

קיימת סכנת פיצוץ של הסוללה במידה והוחלפה בדרך לא תקינה. יש להחליף את הסוללה בסוג התואם מחברת יצרן מומלצת.

סילוק הסוללות המשומשות יש לבצע לפי הוראות היצרן.

هناك خطر من انفجار في حالة استبدال البطارية بطريقة غير صحيحة عليك استبدال البطارية فقط بنفس النوع أو ما يعادلها كما أوصت به الشركة المصنعة تخلص من البطاريات المستعملة وفقا لتعليمات الشركة الصانعة

경고!

배터리가 올바르게 교체되지 않으면 폭발의 위험이 있습니다. 기존 배터리와 동일하거나 제조사에서 권장하는 동등한 종류의 배터리로만 교체해야 합니다. 제조사의 안내에 따라 사용된 배터리를 처리하여 주십시오.

Waarschuwing

Er is ontplofingsgevaar indien de batterij verkeerd vervangen wordt. Vervang de batterij slechts met hetzelfde of een equivalent type die door de fabrikant aanbevolen wordt. Gebruikte batterijen dienen overeenkomstig fabrieksvoorschriften afgevoerd te worden.

Redundant Power Supplies



Warning!

This unit might have more than one power supply connection. All connections must be removed to de-energize the unit.

冗長電源装置

このユニットは複数の電源装置が接続されている場合があります。
ユニットの電源を切るためには、すべての接続を取り外さなければなりません。

警告

此部件连接的电源可能不止一个，必须将所有电源断开才能停止给该部件供电。

警告

此裝置連接的電源可能不只一個，必須切斷所有電源才能停止對該裝置的供電。

Warnung

Dieses Gerät kann mehr als eine Stromzufuhr haben. Um sicherzustellen, dass der Einheit kein Strom zugeführt wird, müssen alle Verbindungen entfernt werden.

¡Advertencia!

Puede que esta unidad tenga más de una conexión para fuentes de alimentación. Para cortar por completo el suministro de energía, deben desconectarse todas las conexiones.

Attention

Cette unité peut avoir plus d'une connexion d'alimentation. Pour supprimer toute tension et tout courant électrique de l'unité, toutes les connexions d'alimentation doivent être débranchées.

אם קיים יותר מספק אחד

אזהרה!

ליחידה יש יותר מחיבור אחד של ספק. יש להסיר את כל החיבורים על מנת לרוקן את היחידה.

قد يكون لهذا الجهاز عدة اتصالات بوحدات امداد الطاقة.
يجب إزالة كافة الاتصالات لعزل الوحدة عن الكهرباء

경고!

이 장치에는 한 개 이상의 전원 공급 단자가 연결되어 있을 수 있습니다. 이 장치에 전원을 차단하기 위해서는 모든 연결 단자를 제거해야만 합니다.

Waarschuwing

Deze eenheid kan meer dan één stroomtoevoeraansluiting bevatten. Alle aansluitingen dienen verwijderd te worden om het apparaat stroomloos te maken.

Backplane Voltage



Warning!

Hazardous voltage or energy is present on the backplane when the system is operating. Use caution when servicing.

バックプレーンの電圧

システムの稼働中は危険な電圧または電力が、バックプレーン上にかかっています。

修理する際にはご注意ください。

警告

当系统正在进行时，背板上有很危险的电压或能量，进行维修时务必小心。

警告

當系統正在進行時，背板上有危險的電壓或能量，進行維修時務必小心。

Warnung

Wenn das System in Betrieb ist, treten auf der Rückwandplatine gefährliche Spannungen oder Energien auf. Vorsicht bei der Wartung.

¡Advertencia!

Cuando el sistema está en funcionamiento, el voltaje del plano trasero es peligroso. Tenga cuidado cuando lo revise.

Attention

Lorsque le système est en fonctionnement, des tensions électriques circulent sur le fond de panier. Prendre des précautions lors de la maintenance.

מתח בפנל האחורי

אזהרה !

קיימת סכנת מתח בפנל האחורי בזמן תפעול המערכת. יש להיזהר במהלך העבודה.

هناك خطر من التيار الكهربائي أو الطاقة الموجودة على اللوحة عندما يكون النظام يعمل كن حذرا عند خدمة هذا الجهاز

경고!

시스템이 동작 중일 때 후면판 (Backplane)에는 위험한 전압이나 에너지가 발생 합니다. 서비스 작업 시 주의하십시오.

Waarschuwing

Een gevaarlijke spanning of energie is aanwezig op de backplane wanneer het systeem in gebruik is. Voorzichtigheid is geboden tijdens het onderhoud.

Comply with Local and National Electrical Codes



Warning!

Installation of the equipment must comply with local and national electrical codes.

地方および国の電気規格に準拠

機器の取り付けはその地方および国の電気規格に準拠する必要があります。

警告

设备安装必须符合本地与本国电气法规。

警告

設備安裝必須符合本地與本國電氣法規。

Warnung

Die Installation der Geräte muss den Sicherheitsstandards entsprechen.

¡Advertencia!

La instalacion del equipo debe cumplir con las normas de electricidad locales y nacionales.

Attention

L'équipement doit être installé conformément aux normes électriques nationales et locales.

תאום חוקי החשמל הארצי

אזהרה !

התקנת הציוד חייבת להיות תואמת לחוקי החשמל המקומיים והארציים.

تركيب المعدات الكهربائية يجب أن يمثل للقوانين المحلية والوطنية المتعلقة
بالكهرباء

경고!

현 지역 및 국가의 전기 규정에 따라 장비를 설치해야 합니다.

Waarschuwing

Bij installatie van de apparatuur moet worden voldaan aan de lokale en nationale elektriciteitsvoorschriften.

Product Disposal



Warning!

Ultimate disposal of this product should be handled according to all national laws and regulations.

製品の廃棄

この製品を廃棄処分する場合、国の関係する全ての法律・条例に従い処理する必要があります。

警告

本产品的废弃处理应根据所有国家的法律和规章进行。

警告

本產品的廢棄處理應根據所有國家的法律和規章進行。

Warnung

Die Entsorgung dieses Produkts sollte gemäß allen Bestimmungen und Gesetzen des Landes erfolgen.

¡Advertencia!

Al deshacerse por completo de este producto debe seguir todas las leyes y reglamentos nacionales.

Attention

La mise au rebut ou le recyclage de ce produit sont généralement soumis à des lois et/ou directives de respect de l'environnement. Renseignez-vous auprès de l'organisme compétent.

סילוק המוצר

אזהרה !

סילוק סופי של מוצר זה חייב להיות בהתאם להנחיות וחוקי המדינה.

عند التخلص النهائي من هذا المنتج ينبغي التعامل معه وفقا لجميع القوانين واللوائح الوطنية

경고!

이 제품은 해당 국가의 관련 법규 및 규정에 따라 폐기되어야 합니다.

Waarschuwing

De uiteindelijke verwijdering van dit product dient te geschieden in overeenstemming met alle nationale wetten en reglementen.

Hot Swap Fan Warning



Warning!

The fans might still be turning when you remove the fan assembly from the chassis. Keep fingers, screwdrivers, and other objects away from the openings in the fan assembly's housing.

ファン・ホットスワップの警告

シャーシから冷却ファン装置を取り外した際、ファンがまだ回転している可能性があります。ファンの開口部に、指、ドライバー、およびその他のものを近づけないで下さい。

警告

当您从机架移除风扇装置，风扇可能仍在转动。小心不要将手指、螺丝起子和其他物品太靠近风扇

警告

當您從機架移除風扇裝置，風扇可能仍在轉動。小心不要將手指、螺絲起子和其他物品太靠近風扇。

Warnung

Die Lüfter drehen sich u. U. noch, wenn die Lüfterbaugruppe aus dem Chassis genommen wird. Halten Sie Finger, Schraubendreher und andere Gegenstände von den Öffnungen des Lüftergehäuses entfernt.

¡Advertencia!

Los ventiladores podran dar vuelta cuando usted quite el montaje del ventilador del chasis. Mantenga los dedos, los destornilladores y todos los objetos lejos de las aberturas del ventilador

Attention

Il est possible que les ventilateurs soient toujours en rotation lorsque vous retirerez le bloc ventilateur du châssis. Prenez garde à ce que doigts, tournevis et autres objets soient éloignés du logement du bloc ventilateur.

אזהרה !

כאשר מסירים את חלקי המאוורר מהמארז, יתכן והמאווררים עדיין עובדים. יש להרחיק למרחק בטוח את האצבעות וכלי עבודה שונים מהפתחים בתוך המאוורר

من الممكن أن المراوح لا تزال تدور عند إزالة كتلة المروحة من الهيكل يجب إبقاء الأصابع ومفكات البراغي وغيرها من الأشياء بعيدا عن الفتحات في كتلة المروحة.

경고!

새시로부터 팬 조립품을 제거할 때 팬은 여전히 회전하고 있을 수 있습니다. 팬 조립품 외관의 열려있는 부분들로부터 손가락 및 스크류드라이버, 다른 물체들이 가까이 하지 않도록 배치해 주십시오.

Waarschuwing

Het is mogelijk dat de ventilator nog draait tijdens het verwijderen van het ventilatorsamenstel uit het chassis. Houd uw vingers, schroevendraaiers en eventuele andere voorwerpen uit de buurt van de openingen in de ventilatorbehuizing.

Power Cable and AC Adapter



Warning!

When installing the product, use the provided or designated connection cables, power cables and AC adaptors. Using any other cables and adaptors could cause a malfunction or a fire. Electrical Appliance and Material Safety Law prohibits the use of UL or CSA -certified cables (that have UL/CSA shown on the code) for any other electrical devices than products designated by Supermicro only.

電源コードとACアダプター

製品を設置する場合、提供または指定された接続ケーブル、電源コードとACアダプターを使用下さい。他のケーブルやアダプタを使用すると故障や火災の原因になることがあります。電気用品安全法は、ULまたはCSA認定のケーブル(UL/CSEマークがコードに表記)をSupermicroが指定する製品以外に使用することを禁止しています。

警告

安装此产品时,请使用本身提供的或指定的连接线,电源线和电源适配器.使用其它线材或适配器可能会引起故障或火灾。除了Supermicro所指定的产品,电气用品和材料安全法律规定禁止使用未经UL或CSA认证的线材。(线材上会显示UL/CSA符号)。

警告

安装此產品時,請使用本身提供的或指定的連接線,電源線和電源適配器.使用其它線材或適配器可能會引起故障或火災。除了Supermicro所指定的產品,電氣用品和材料安全法律規定禁止使用未經UL或CSA認證的線材。(線材上會顯示UL/CSA符號)。

Warnung

Bei der Installation des Produkts, die zur Verfügung gestellten oder benannt Anschlusskabel, Stromkabel und Netzteile. Verwendung anderer Kabel und Adapter kann zu einer Fehlfunktion oder ein Brand entstehen. Elektrische Geräte und Material Safety Law verbietet die Verwendung von UL-oder CSA-zertifizierte Kabel, UL oder CSA auf der Code für alle anderen elektrischen Geräte als Produkte von Supermicro nur bezeichnet gezeigt haben.

¡Advertencia!

Al instalar el producto, utilice los cables de conexión previstos o designados, los cables y adaptadores de CA. La utilización de otros cables y adaptadores podría ocasionar un mal funcionamiento o un incendio. Aparatos Eléctricos y la Ley de Seguridad del Material prohíbe el uso de UL o CSA cables certificados que tienen UL o CSA se muestra en el código de otros dispositivos eléctricos que los productos designados por Supermicro solamente.

Attention

Lors de l'installation du produit, utilisez les bables de connection fournis ou désigné. L'utilisation d'autres cables et adaptateurs peut provoquer un dysfonctionnement ou un incendie. Appareils électroménagers et de loi sur la sécurité Matériel interdit l'utilisation de UL ou CSA câbles certifiés qui ont UL ou CSA indiqué sur le code pour tous les autres appareils électriques que les produits désignés par Supermicro seulement.

חשמליים ומתאמי AC

אזהרה!

כאשר מתקינים את המוצר, יש להשתמש בכבלים, ספקים ומתאמים AC אשר נועדו וסופקו לשם כך. שימוש בכל כבל או מתאם אחר יכול לגרום לתקלה או קצר חשמלי. על פי חוקי שימוש במכשירי חשמל וחוקי בטיחות, קיים איסור להשתמש בכבלים המוסמכים ב- UL או ב- CSA (כשאר מופיע עליהם קוד של UL/CSA) עבור כל מוצר חשמלי אחר שלא צוין על ידי סופרמיקרו בלבד.

تحذير! هذا الأمر يعني حصرات في حانه يمحس ان تسبب في اصابه جسديه .
قبل أن تعمل على أي معدات، كن على علم بالمخاطر الناجمة عن الدوائر
الكهربائية

وكن على دراية بالممارسات الوقائية لمنع وقوع أي حوادث
استخدم رقم البيان المنصوص في نهاية كل تحذير للعثور ترجمتها

경고!

제품을 설치할 때에는 제공되거나 지정된 연결케이블과 전원케이블, AC 어댑터를 사용해야 합니다. 그 밖의 다른 케이블들이나 어댑터들은 고장 또는 화재의 원인이 될 수 있습니다. 전기용품안전법 (Electrical Appliance and Material Safety Law)은 슈퍼마이크로에서 지정한 제품들 외에는 그 밖의 다른 전기 장치들을 위한 UL 또는 CSA에서 인증한 케이블 (전선 위에 UL/CSA가 표시)들의 사용을 금지합니다.

Waarschuwing

Bij het installeren van het product, gebruik de meegeleverde of aangewezen kabels, stroomkabels en adapters. Het gebruik van andere kabels en adapters kan leiden tot een storing of een brand. Elektrisch apparaat en veiligheidsinformatiebladen wet verbiedt het gebruik van UL of CSA gecertificeerde kabels die UL of CSA die op de code voor andere elektrische apparaten dan de producten die door Supermicro alleen.

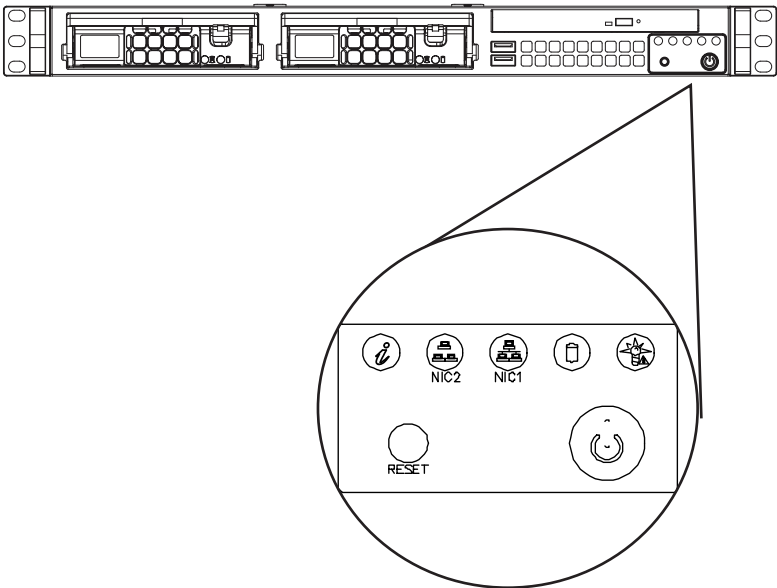
Notes

Chapter 3

System Interface

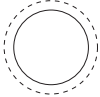
3-1 Overview

There are several LEDs on the control panel and on the drive carriers to keep you informed of the status of the system. Most SC811 models include two buttons on the chassis control panel: a reset button and an on/off switch. This chapter explains the meanings of the LED indicators and the appropriate responses.



3-2 Control Panel Buttons

There are two push-buttons located on the front of the chassis. These are (from left to right) a reset button and a power on/off button.



- **Reset:** The reset button is used to reboot the system.



- **Power:** The main power switch is used to apply or remove power from the power supply to the server system. Turning off system power with this button removes the main power but keeps standby power supplied to the system. Therefore, you must unplug system before servicing.

3-3 Control Panel LEDs

The control panel located on the front of the SC811 chassis has five LEDs. They provide you with critical information related to different parts of the system. This section explains what each LED indicates when illuminated and any corrective action.



- **Information LED:** Alerts operator of several states, as noted in the table below.

Informational LED	
Status	Description
Continuously on and red	An overheat condition has occurred. (This may be caused by cable congestion.)
Blinking red (1Hz)	Fan failure, check for an inoperative fan.
Blinking red (0.25Hz)	Power failure, check for a non-operational power supply.
Solid blue	Local UID has been activated. Use this function to locate the server in a rack mount environment.
Blinking blue	Remote UID is on. Use this function to identify the server from a remote location.



- NIC2: Indicates network activity on GLAN2 when flashing.



- NIC1: Indicates network activity on GLAN1 when flashing.



- HDD: Indicates IDE channel activity. SAS/SATA drive, SCSI drive, and/or DVD-ROM drive activity when flashing.



- Power: Indicates power is being supplied to the system's power supply units. This LED should normally be illuminated when the system is operating.

3-4 Drive Carrier LEDs

The SC811 chassis uses SAS/SATA or SCSI drives, but not both.

SAS/SATA Drives

Each SAS/SATA drive carrier has two LEDs.

- **Green:** Each Serial ATA drive carrier has a green LED. When illuminated, this green LED (on the front of the SATA drive carrier) indicates drive activity. A connection to the SATA backplane enables this LED to blink on and off when that particular drive is being accessed.
- **Red:** The red LED to indicate an SAS/SATA drive failure. If one of the SAS/SATA drives fail, you should be notified by your system management software.

SCSI Drives

Each SCSI drive carrier has two LEDs.

- **Green:** When illuminated, the green LED on the front of the SCSI drive carrier indicates drive activity. A connection to the SCSI backplane enables this LED to blink on and off when that particular drive is being accessed.
- **Red:** The SAF-TE compliant backplane activates the red LED to indicate a drive failure. If one of the SCSI drives fail, you should be notified by your system management software.

Chapter 4

Chassis Setup and Maintenance

4-1 Overview

This chapter covers the steps required to install components and perform maintenance on the chassis. The only tool required is a Phillips screwdriver.

Review the warnings and precautions listed in the manual before setting up or servicing this chassis. These include information in Chapter 2: System Safety and the warning/precautions listed in the setup instructions

4-2 Removing the Power from the System

Before performing any setup or maintenance on the chassis, use the following procedure to ensure that power has been removed from the system.

1. Use the operating system to power down the node, following the on-screen prompts.
2. After the system has completely shut-down, carefully grasp the head of the power cord and gently pull it out of the back of the power supply. If your system has dual power supplies, remove the cords from both power supplies.
3. Disconnect the cord from the power strip or wall outlet.

4-3 Removing the Chassis Cover

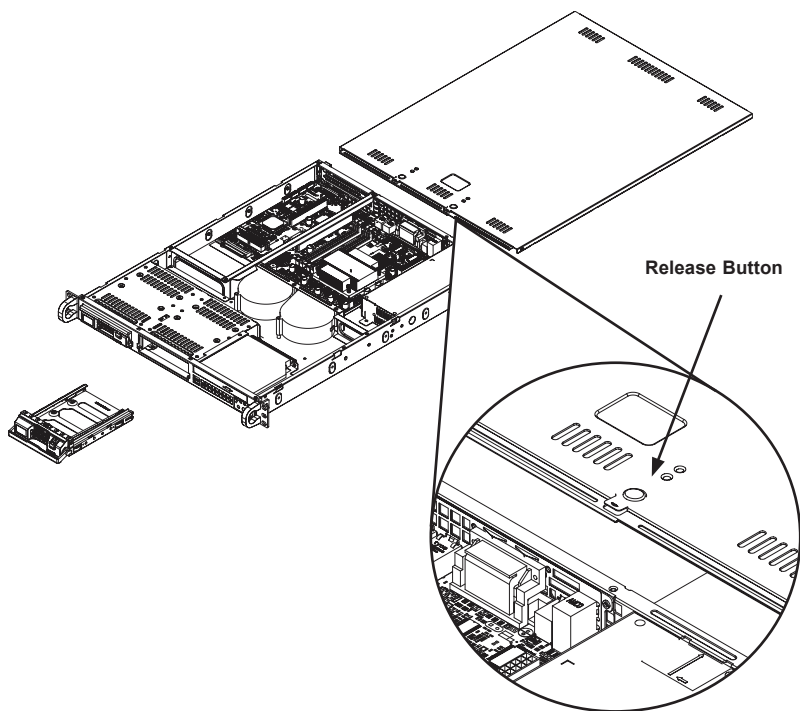


Figure 4-1. Removing the Chassis Cover

Removing the Chassis Cover

1. Press the release buttons to remove the cover from the locked position. Press both buttons at the same time.
2. Once the top cover is released from the locked position, slide the cover toward the rear of the chassis. The cover will only slide about two inches.
3. Lift the cover off the chassis.

Caution: Except for short periods of time, do *not* operate the server without the cover in place. The chassis cover must be in place to allow proper airflow and prevent overheating.

4-4 Removing and Installing Hard Drives

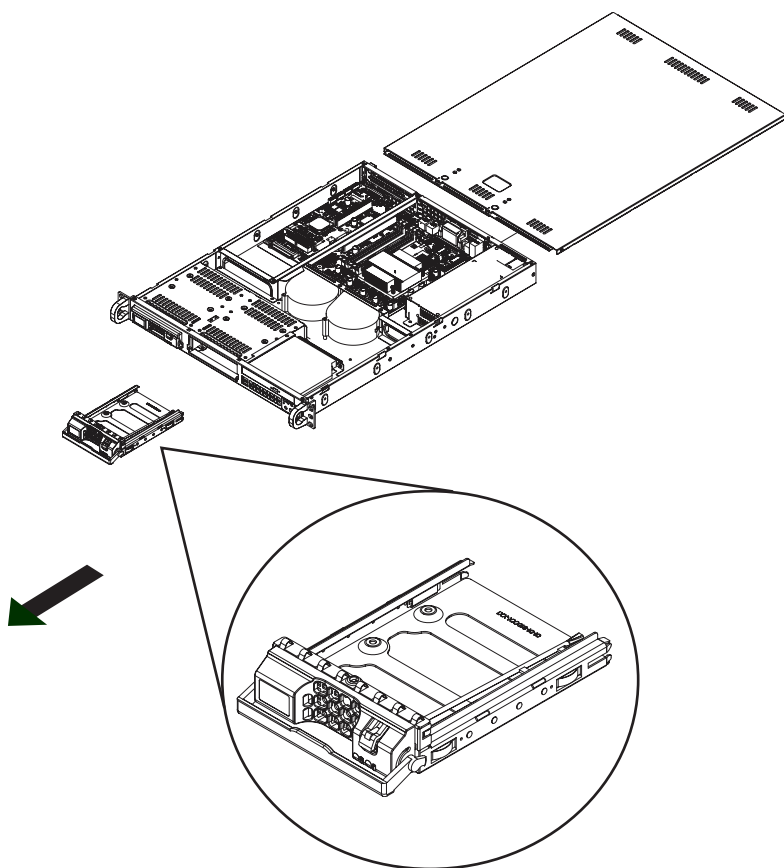


Figure 4-2. Removing a Hard Drive

Removing Hard Drive Trays from the Chassis

1. Press the release button on the drive carrier. This extends the drive carrier handle.
2. Use the handle to pull the drive out of the chassis.

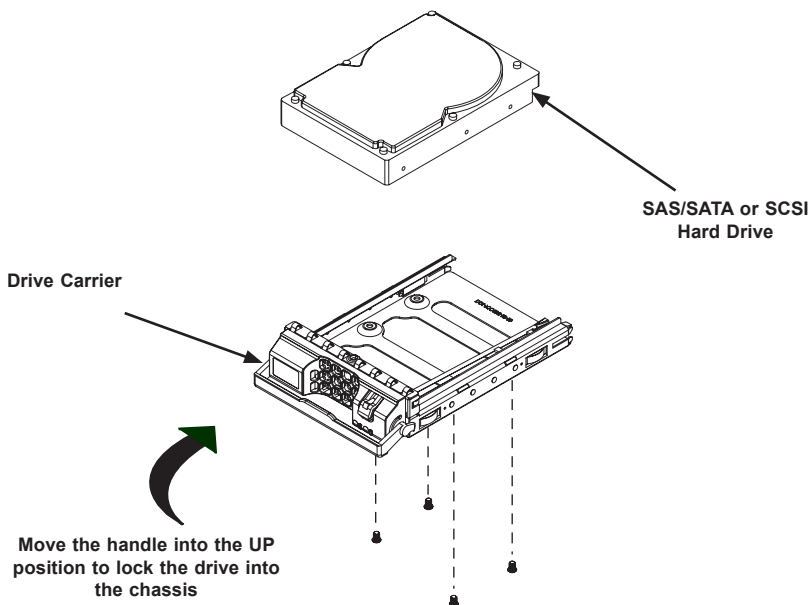


Figure 4-3. Removing the Drive from the Tray

Installing a Hard Drive

1. Remove the hard drive tray from the chassis.
2. Mount a hard drive into the drive carrier using four screws as illustrated.
3. Replace the hard drive carrier in the chassis with the handle in the lowered position.
4. Secure the hard drive by pushing the handle into the upward position.

Only enterprise level hard drives are recommended for use in Supermicro chassis

Caution: Except for short periods of time, such as swapping hard drives, do not operate the server with the hard drives empty.

4-5 Installing the Motherboard

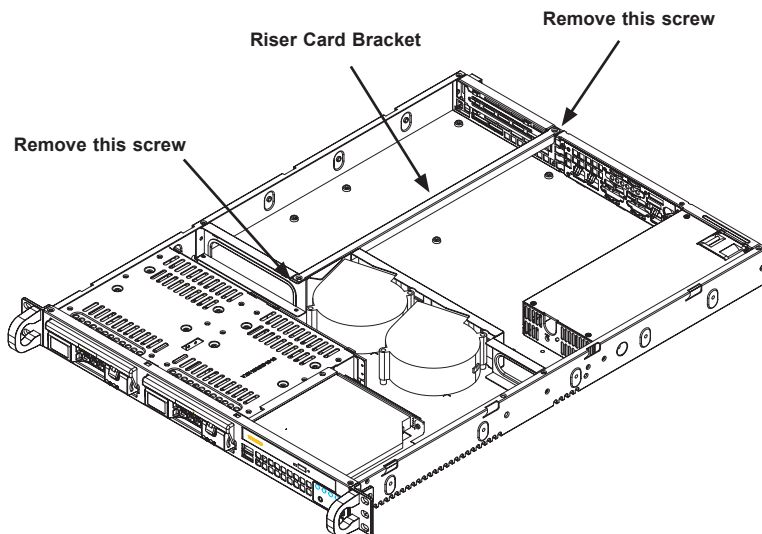


Figure 4-4. Removing the Riser Card Bracket

Installing the Motherboard

1. Review the documentation that came with your motherboard. Become familiar with component placement, requirements, precautions, and cable connections.
2. Power down the system as described in Section 4-2 and remove the cover.
3. Remove the two screws holding the riser card bracket in place.
4. Remove the bracket from the chassis.
5. Locate the mylar sheet in the accessories package and place the sheet into the chassis.
6. Carefully place the motherboard in the chassis. You must align the I/O shield with the motherboard ports.

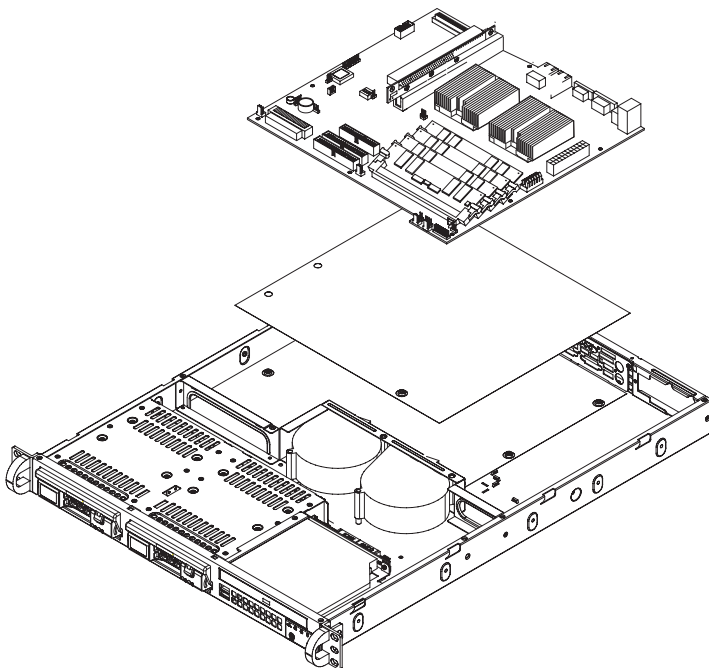


Figure 4-5. Installing the Mylar Sheet and Motherboard

7. Secure the motherboard to the chassis using six screws located in the chassis screws. Do not exceed eight pounds of torque when tightening down the motherboard.
8. Secure the CPU(s), heatsinks, and other components to the motherboard as described in the motherboard documentation.
9. Connect the cables between the motherboard, backplane, chassis, front panel, and power supply, as needed.
10. Replace the riser card bracket.

4-6 Installing the Expansion Card

The SC811 chassis includes a slot for one full-length/full-height expansion card slot.

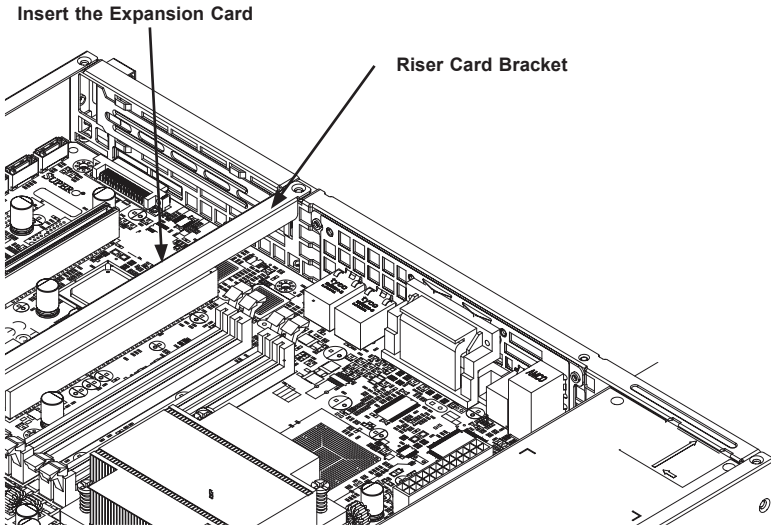


Figure 4-6. Expansion Card Installation

Installing the Expansion Card

1. Power down the system as described in Section 4-2, lay the chassis on a flat surface, and open the chassis cover.
2. In the rear of the chassis, pull open the expansion card clip and remove the PCI slot shield.
3. Confirm that the expansion card has an L-bracket and connect the expansion card to the riser card which is embedded in the riser card bracket.
4. When the expansion card is installed in the riser card, the L-bracket slides into the PCI slot. Note that most expansion cards face downward once installed.
5. Close the expansion card clip to secure the L-bracket and expansion card.

4-7 Installing the Air Shroud

Air shrouds concentrate airflow to maximize fan efficiency. The SC811 chassis air shroud does not require screws to set it up.

Installing the Air Shroud

1. Remove the mylar air shroud from the accessories box.
2. If necessary, bend the air shroud so the sides air at a ninety degree angle to the top.
3. Place air shroud in the chassis. The air shroud fits behind the two blowers.

Checking the Server Airflow

1. Make sure there are no objects to obstruct airflow in and out of the server. In addition, if you are using a front bezel, make sure the bezel's filter is replaced periodically.
2. Do not operate the server without drives or drive trays in the drive bays. Use only recommended server parts.
3. Make sure no wires or foreign objects obstruct air flow through the chassis. Pull all excess cabling out of the airflow path or use shorter cables.
4. The control panel LEDs inform you of system status. See "Chapter 3: System Interface" for details on the LEDs and the control panel buttons.

Installation Complete

In most cases, the chassis power supply and system air blowers are pre-installed. In the unlikely event that it is necessary to replace the blowers or power supply, continue to the following section where general maintenance procedures will be addressed. If the chassis will be installed into a rack, proceed to the next chapter for rack installation instructions.

General Maintenance

The following section provides general maintenance information for the SC811 chassis

4-8 System Blowers

Two heavy-duty air blowers provide cooling for the chassis. These fans circulate air through the chassis as a means of lowering the chassis internal temperature.

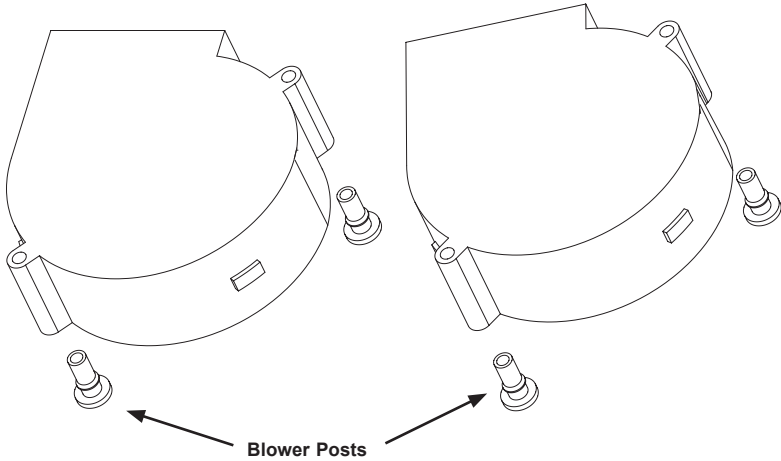


Figure 4-7. Changing System Blowers

Changing a System Blower

1. If necessary, open the chassis while the power is running to determine which blower needs to be changed. (Never run the server for an extended period of time with the chassis open.)
2. (Optional) Power down the system as described in Section 4-2. This blower can be replaced without stopping the chassis.
3. Remove the failed fan's power cord from the serverboard.
4. Lift the blower from the chassis.
5. Align the replacement blower with the blower post and secure the blower to the chassis.

4-9 Power Supply

Most SC811 chassis models include a high-efficiency power supply that is auto-switching capable. This enables it to automatically sense and operate at a 100v to 240v input voltage. An amber light will be illuminated on the power supply when the power is off. An illuminated green light indicates that the power supply is operating.

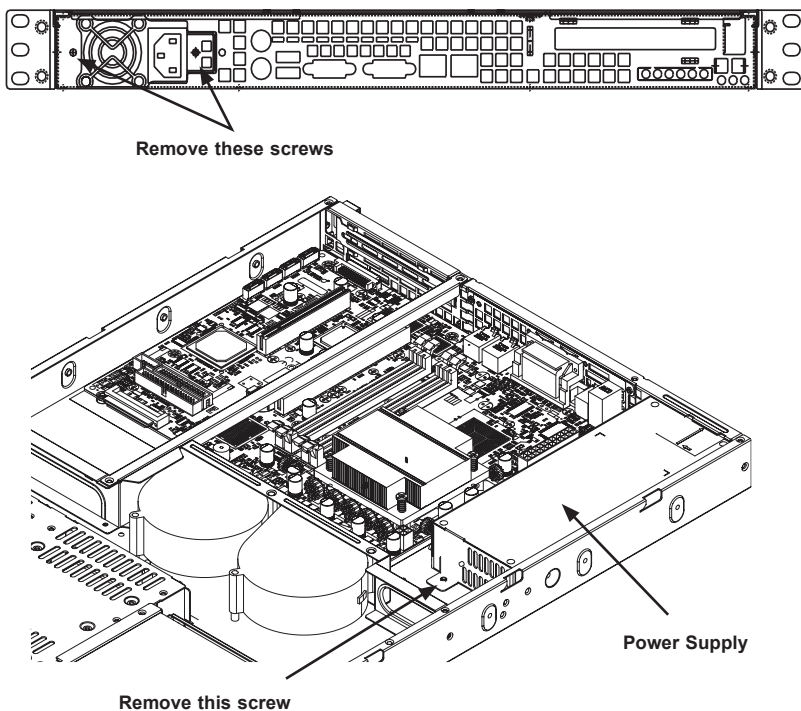


Figure 4-8. Changing the Power Supply

Changing the Power Supply

1. Power down the system as described in Section 5-2 and remove the cover..
2. Disconnect all cables connecting the power supply to the motherboard and other components.

3. Remove the three screws securing the power supply. Two screws are accessible from the rear of the chassis. The other is located in the front of the power supply.
4. Remove the power supply and replace the unit with out of the same model.
5. Reconnect the cables to the motherboard.
6. Reconnect the power cord and power-up the system.

4-10 Other Components

Changing the DVD-ROM

1. Power down the system as described in Section 4-2 and remove the cover..
2. Disconnect the power cord and data cables from the DVD-ROM drive to other chassis components including the motherboard and backplane.
3. Remove the failed DVD-ROM drive by depressing the release tab, then pulling the drive out of the chassis.
4. Insert the new DVD-ROM drive unit in the slot until the tab locks into place.
5. Connect the data cables and power cord to the backplane and motherboard.
6. For more information, see the manual for your backplane in the appendix of this document.

Changing the Control Panel

1. Power down the system as described in Section 4-2 and remove the cover..
2. Disconnect the power cord and data cables from the control panel to other chassis components including the motherboard and backplane.
3. Remove the control panel by depressing the release tab (or removing the screws), then pull the unit out of the chassis.
4. Insert the new control panel unit into the slot until the tab locks into place.
5. Connect the data and power cables to the backplane and motherboard. For more information, see the manual for your backplane in the appendix of this document.

Chapter 5

Rack Installation

This chapter provides simple instructions for installing this chassis into a rack. This chassis does not support Telco rack installation.

5-1 Preparing for Setup

Please read this section in its entirety before beginning the installation procedure.

Choosing a Setup Location

Decide on a suitable location for the rack. It should be a clean, dust-free area that is well ventilated. Avoid areas where heat, electrical noise and electromagnetic fields are generated. Place it near a grounded power outlet.

- Leave at least 25 inches clearance in front of the rack to open the front door completely.
- Leave approximately 30 inches of clearance in the back of the rack to allow for sufficient airflow and ease in servicing.
- Install in a restricted access location, such as a dedicated equipment room or service closet.

Ambient Operating Temperature

If installed in a closed or multi-unit rack assembly, the ambient operating temperature of the rack environment may be greater than the ambient temperature of the room. Install the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (TMRA).

Adequate Airflow

Equipment should be mounted into a rack so that the amount of airflow required for safe operation is not compromised.

Circuit Overloading

Avoid overloading the power supply circuitry or any overcurrent protection equipment. Use equipment nameplate ratings to calculate your requirements.

Reliable Ground

A reliable ground must be maintained at all times. To ensure this, ground the rack, itself. Pay attention to power supply connections other than the direct connections to the branch circuit, such as power strips.

Physical Rack Precautions



Warning: Follow these guidelines to prevent injury. Take all precautions to ensure the system remains stable. The following guidelines are provided to ensure your safety.

- Ensure that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on them.
- In single rack installation, stabilizers should be attached to the rack.
- In multiple rack installations, the racks should be coupled together.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack. If this is the only unit in the rack, mount it at the bottom.
- Always make sure the rack is stable before extending a component from the rack. Extend only one component at a time. Extending two or more simultaneously may cause the rack to become unstable.
- This chassis does not support Telco rack installation.

General Server Precautions

- Review the electrical and general safety precautions that came with the components you are adding to your chassis.
- Determine the placement of each component in the rack.

- Install the heaviest server components on the bottom of the rack first, and then work up.
- Use a regulating, uninterruptible power supply (UPS) to protect the server from power surges, voltage spikes and to keep your system operating in case of a power failure.
- Allow the hard drives and power supply modules to cool before touching them.
- Always keep the rack front door, all panels and all components on the servers closed when not servicing, to maintain proper cooling.

5-2 Rack Mounting Instructions

This section provides information on installing the SC811 chassis into a rack unit with the rails provided. There are a variety of rack units on the market, which may mean the assembly procedure will differ slightly. Refer also to the installation instructions that came with the rack unit.

Note: The rails will fit a rack between 29" and 35.25" deep.

Identifying the Sections of the Rails

The chassis package includes two rail assemblies in the rack mounting kit. Each assembly consists of two sections: an inner fixed chassis rail that secures directly to the server chassis and an outer rack rail that secures directly to the rack itself.

Rail Brackets

The chassis package includes four rail brackets and two chassis mounts. The rail brackets have long ovals used to adjust the length of the rails when mounting. The chassis mounts (both short) have one square hole.

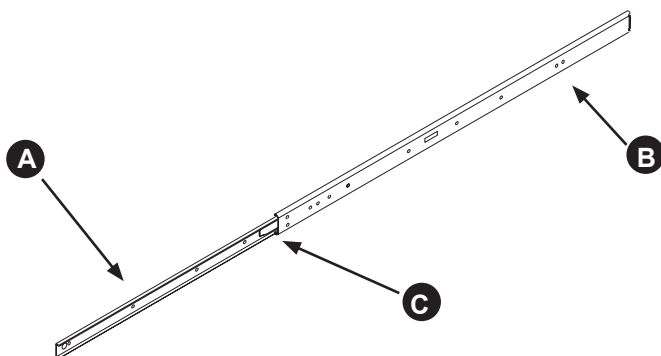


Figure 5-1: Inner and Outer Rails

Separating the Inner and Outer Rails

1. Pull the inner rail (A) from the outer rail (B) as far as possible.
2. Depress the locking tab (C) to pull the inner rail completely out.
3. Repeat steps 1 and 2 for the other rail.

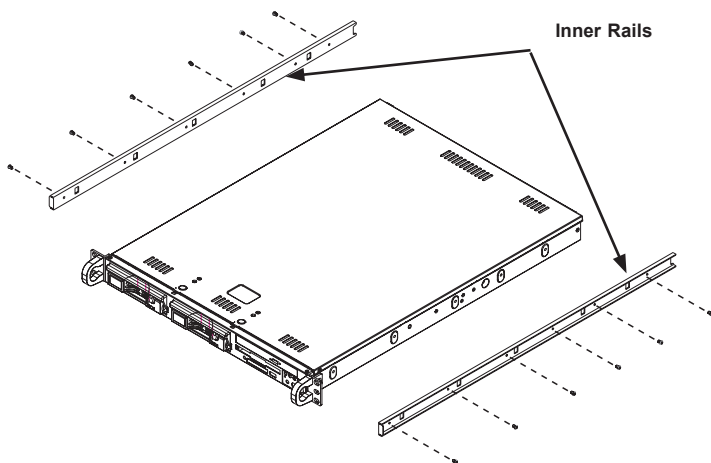


Figure 5-2: Rail Installation

Installing the Inner Rail

1. Align the chassis rail with the side of the chassis.
2. Secure the rail to the chassis using six M5 flat head screws.
3. Repeat steps 1 and 2 for the other side of the chassis.

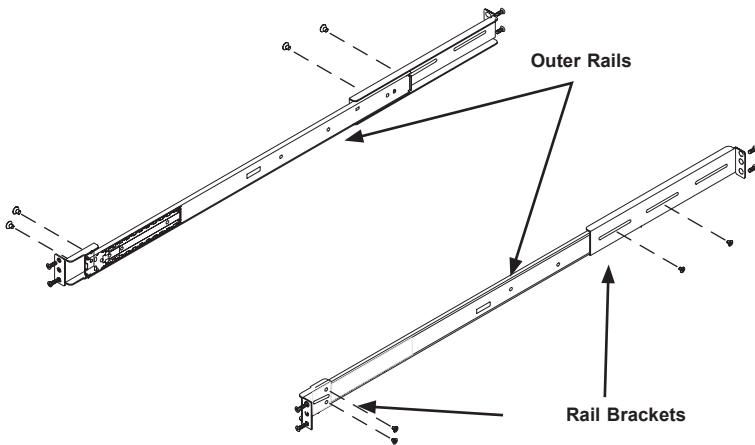


Figure 5-3. Rack Brackets

Installing the Outer Rails to the Rack

1. Confirm that the inner rails have been separated from the outer rails.
2. Locate the rail brackets in the accessories box. The chassis package includes four rail brackets and two chassis mounts. The rail brackets have long ovals used to adjust the position of the rails when mounting. The chassis mounts (both short) have one square hole.
3. Secure the short brackets to the front of the outer rails with two M4 screws.
4. Secure the long brackets to the outer rails using two M4 screws. Tighten the screws loosely so the bracket can slide back and forth.
5. Position the outer rail and brackets in the rack at the desired level.
6. Secure the front of the rail to the rack using two M5 rack screws.
7. Slide the rear bracket so that it snugly fits into the rack. Secure the rear bracket to the rack using two M5 screws.
8. Tighten the screws that secure the rear bracket to the rail.
9. Repeat these steps with the other chassis rail.



Stability hazard. The rack stabilizing mechanism must be in place, or the rack must be bolted to the floor before you slide the unit out for servicing. Failure to stabilize the rack can cause the rack to tip over.

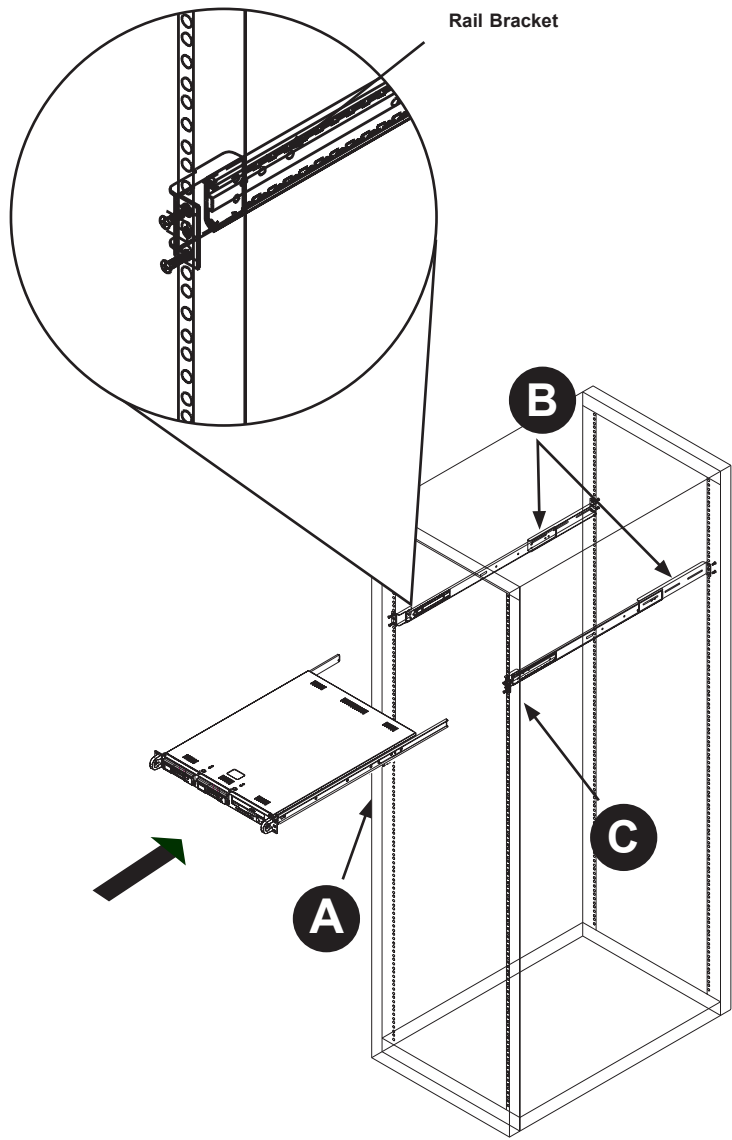


Figure 5-4: Mounting the Chassis

(Note: This figure is for illustrative purposes only. Always install servers into racks from the bottom up.

Installing the Chassis into a Rack

Chassis Installation

1. Confirm that the chassis includes the inner rails (A) and that the outer rails (B) are installed on the rack (See Figure 5-3)
2. Align the chassis rails (A) with the front of the rack rails (C).
3. Slide the chassis rails into the rack rails, keeping the pressure even on both sides (you may have to depress the locking tabs when inserting). When the server has been pushed completely into the rack, you should hear the locking tabs "click".
4. (Optional) Insert and tightening the thumbscrews that hold the front of the server to the rack.



Caution: Do not pick up the server by the front handles. They are designed to pull the system from a rack only.

Notes

Appendix A

Cables, Screws, and Other Accessories

A-1 Overview

This appendix lists supported cables for your chassis system. It only includes the most commonly used components and configurations. For more compatible cables, refer to the manufacturer of the motherboard you are using and our Web site at: www.supernmicro.com.

A-2 Cables Included with SC811TQ Chassis (SAS/SATA)

SC811TQ			
Part #	Type	Length	Description
CBL-00051L	Cable	60 cm	Round floppy cable
CBL-0061L	Ribbon, round	35 cm	SATA cable
CBL-0155L	Wire	60 cm	IDE 80-wire cable for DVD-ROM
-	Cord	6 feet	Regional power cord
CBL-0157L	Cable	Varies	8-pin to 8-pin cable for SGPIO

Note: Items may change without notice. Refer to <http://www.supernmicro.com> for the latest information.

A-3 Cables Included with SC811S Chassis (SCSI)

SC811S			
Part #	Type	Length	Description
CBL-0051L	Cable	60 cm	Round floppy cable
CBL-0052	Cable	60 cm	Round IDE cable
CBL-0063	Cable	20 inches	SCSI cable
-	Cord	6 feet	Regional power cord
CBL-0155L	Cable	60 cm	80-wire IDE from DVD-ROM

Note: Items may change without notice. Refer to <http://www.supernmicro.com> for the latest information.

A-4 Cables Included with the SC811T Chassis (SCSI)

SC811T			
Part #	Type	Length	Description
CBL-0061	Cable	13.8 inches	Amphenol Serial ATA cable

Note: Items may change without notice. Refer to <http://www.supermicro.com> for the latest information.

A-5 Compatible Cables

These cables are compatible with the SC811 chassis.

Alternate SAS/SATA Cables

Some compatible motherboards have different connectors. If your motherboard has only one SAS connector that the SAS/SATA cables must share, use one of the following cables. These cables must be purchased separately.

Cable Name: SAS Cable

Quantity: 1

Part #: CBL-0175L

Alt. Name: "Big Four"

Description: This cable has one SFF-8484 (32-pin) connector on one end and four SAS connectors (with seven pins each) at the other. This cable connects from the host (motherboard or other controller) to the backplane's SAS hard drive port.

Cable Name: SAS Cable

Quantity: 1

Part #: CBL-0116

Alt. Name: iPass or "Small Four"

Description: This cable has one iPass (SFF-8087/Mini-SAS) connector (36-pin) at one end and four SAS connectors on one end. This cable connects from the host (motherboard or other controller) to the backplane's SAS hard drive port.

Extending Power Cables

Although Supermicro chassis are designed with to be efficient and cost-effective, some compatible motherboards have power connectors located in different areas.

To use these motherboards you may have to extend the power cables to the motherboards. To do this, use the following chart as a guide.

Power Cable Extenders		
Number of Pins	Cable Part #	Length
24-pin	CBL-0042	7.9" (20 cm)
20-pin	CBL-0059	7.9" (20 cm)
8-pin	CBL-0062	7.9" (20 cm)
4-pin	CBL-0060	7.9" (20 cm)

Front Panel to the Motherboard

The SC811 chassis includes a cable to connect the chassis front panel to the motherboard. If your motherboard uses a different connector, use the following list to find a compatible cable.

Front Panel to Motherboard Cable (Ribbon Cable)		
Number of Pins (Front Panel)	Number of Pins (Motherboard)	Cable Part #
16-pin	16-pin	CBL-0049
16-pin	20-pin	CBL-0048
20-pin	20-pin	CBL-0047
16-pin	varies*	CBL-0068
20-pin	varies*	CBL-0067

* Split cables: Use these cable if your motherboard requires several different connections from the front panel.

A-6 Chassis Screws

The chassis and accessory box include all the screws needed to set up your chassis. This section includes descriptions of the most common screws used. Your chassis may not require all of the parts listed.

M/B



Pan head
6-32 x 5 mm
[0.197]

HARD DRIVE



Flat head
6-32 x 5 mm
[0.197]

DVD-ROM, CD-ROM, and FLOPPY DRIVE



Pan head
6-32 x 5 mm
[0.197]



Flat head
6-32 x 5 mm
[0.197]



Round head
3 x 5 mm
[0.197]



Round head
2.6 x 5 mm
[0.197]

RAIL



Flat head
M4 x 4 mm
[0.157]



Round head
M4 x 4 mm
[0.157]



Flat head
M5 x 12 mm [0.472]
Washer for M5



M/B STANDOFFS



M/B standoff
6-32 to 6-32



M/B (CPU) standoff
M5 to 6-32



Thumb screw
6-32 x 5 mm [0.197]

Appendix B

SC811 Power Supply Specifications

This appendix lists power supply specifications for your chassis system.

600W	
MFR Part #	PWS-601-1H
Rated AC Voltage	100 - 240V 50 - 60Hz 7.5 - 3.1A
+5V standby	3A
+12V	49 Amp
+5V	20 Amp
+3.3V	16 Amp
-12V	0.5 Amp

520W		420W
MFR Part #	PWS-521-1H	PWS-0053
Rated AC Voltage	100 - 240V, 50 - 60Hz, 7 - 3 Amp	100 - 240V, 60/50Hz, 7Amp
DC Output	---	5V + 3.3V ≤ 120W
+5V standby	3 Amp	2.0 Amp
+12V	39 Amp	---
+12V₁	---	15.0 Amp
+12V₂	---	15.0 Amp
+12V₃	---	18.0 Amp
+5V	20 A	30.0 Amp
+3.3V	16 Amp	20.0 Amp
-12V	0.5 Amp	1.0 Amp

	410W	350W
MFR Part #	PWS-0061	PWS-0042-24
Rated AC Voltage	---	100 - 240V, 60-50Hz, 6 Amp
DC Output	---	5V + 3.3V ≤ 157W • 12V + 5V + 3.3V ≤ 330W
DC Voltage	Voltage Range = -36V to -72V Nominal Voltage = -48V Max Input Current = 18A @ -48V	---
+5V standby	3.0 Amp	2.0 Amp
+12V	39 Amp	25.0 Amp
+5V	32.0 Amp	25.0 Amp
+3.3V	20 Amp	20.0 Amp
-12V	0.5 Amp	0.8 Amp

	300W	280W
MFR Part #	PWS-0054	PWS-281-1H
Rated AC Voltage	100 - 240V, 60-50Hz, 5 Amp	100 - 240V, 50 - 60Hz, 5Amp
DC Output	5V + 3.3V ≤ 100W	
+5V standby	2.0 Amp	2 Amp
+12V	24.0 Amp	23 Amp
+5V	25 Amp	18 Amp
+3.3V	15 Amp	15 Amp
-12V	1.0 Amp	1.0 Amp

	260W
MFR Part #	PWS-0055
Rated AC Voltage	100 - 240V, 60-50Hz, 4 Amp Max
DC Output	5V + 3.3V ≤ 140W
+5V standby	2.0 Amp
+12V	18.0 Amp
+5V	25.0 Amp
+3.3V	15.0 Amp
-12V	1.0 Amp

Appendix C

SAS-810TQ Backplane Specifications

To avoid personal injury and property damage, carefully follow all the safety steps listed below when accessing your system or handling the components.

C-1 ESD Safety Guidelines

Electrostatic Discharge (ESD) can damage electronic components. To prevent damage to your system, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing a component from the antistatic bag.
- Handle the backplane by its edges only; do not touch its components, peripheral chips, memory modules or gold contacts.
- When handling chips or modules, avoid touching their pins.
- Put the backplane and peripherals back into their antistatic bags when not in use.

C-2 General Safety Guidelines

- Always disconnect power cords before installing or removing any components from the computer, including the SAS-810TQ backplane.
- Disconnect the power cable cord installing or removing any cables from the SAS-810TQ backplane.
- Make sure that the SAS-810TQ backplane is securely and properly installed to prevent damage to the system due to power shortage.

C-3 An Important Note to Users

All images and layouts shown in this user's guide are based upon the latest PCB revision available at the time of publication. The card you have received may or may not look exactly the same as the graphics shown in this manual.

C-4 Introduction to the SAS-810TQ Backplane

The SAS-810TQ backplane has been designed to utilize the most up-to-date technology available, providing your system with reliable, high-quality performance.

This manual reflects SAS-810TQ Revision 1.00, the most current release available at the time of publication. Always refer to the Supermicro Web site at www.supermicro.com for the latest updates, compatible parts and supported configurations.

C-5 Front Connectors

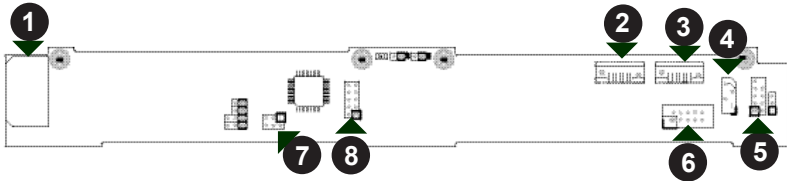


Figure C-1: Front Connectors

Front Connectors

#1. Power connector, 4-pin, JP10

#2. SAS port 1, J6

#3. SAS port 0, J5

#4. I²C connector, JP44

#5. Sideband, JP51

#6. Activity LED header, JP26

#7. Upgrade, JP46

#8. JTAG, JP47

C-6 Front Connectors and Pin Definitions

#1. Backplane Main Power Connectors

The 4-pin connector designated JP10, provides power to the backplane. See the table on the right for pin definitions.

Backplane Main Power 4-Pin Connector (JP10)	
Pin#	Definition
1	+12V
2 and 3	Ground
4	+5V

#2., #3. SAS Ports

The SAS ports are used to connect the SAS drive cables.

SAS Port Pin Definitions			
Pin #	Definition	Pin #	Definition
1	Ground	2	TXP
3	TXN	4	Ground
5	RXN	6	RXP
7	Ground		

#4. I²C Connector

The I²C Connector, designated JP44, is used to monitor HDD activity and status. See the table on the right for pin definitions.

I ² C Connector Pin Definitions (JP44)	
Pin#	Definition
1	Data
2	Ground
3	Clock
4	No Connection

#5. Sideband Header

The sideband header is designated JP51. I²C is the default mode setting. For SES-2 to work properly, you must connect an 8-pin sideband cable. See the table to the right for pin definitions.

Sideband Headers (JP51)			
Pin #	Definition	Pin #	Definition
2	SGPIO: SDIN; I ² C: Backplane Addressing (SB5)	1	Controller ID (SB6)
4	SGPIO: SDOUT; I ² C: Reset (SB4)	3	GND (SB2)
6	GND (SB3)	5	SGPIO: SLOAD; I ² C: SDA (SB1)
8	Backplane ID (SB7)	7	SGPIO: SCLOCK; I ² C: SCL (SB0)
10	No Connection	9	No Connection

#6. Activity LED Header

The activity LED header, designated JP26 is used to indicate the activity status of each SAS drive. The activity LED is located on the front panel. For the activity lead headers to work properly, connect to them using a 10-pin LED cable. This is only used when the activity LED is not supported by the hard drive.

SAS Activity LED Header Pin Definitions (JP26)			
Pin #	Definition	Pin #	Definition
1	ACT IN#0	6	NC
2	ACT IN#1	7	NC
3	NC	8	NC
4	NC	9	NC
5	NC	10	Empty

NC = No Connection

#7. Upgrade Connector

The upgrade connector, designated JP46 is used for manufacturer's diagnostic purposes only.

#8. JTAG

The JTAG port, designated JP47, is a signed debugging port.

C-7 Front Jumper Locations and Pin Definitions

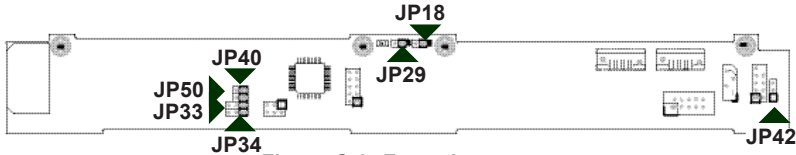
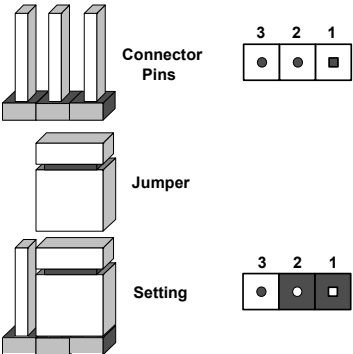


Figure C-2: Front Jumpers

Explanation of Jumpers

To modify the operation of the backplane, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board. **Note:** On two pin jumpers, "Closed" means the jumper is on and "Open" means the jumper is off the pins.



Jumper Settings		
Jumper	Jumper Settings	Note
JP18	Open: Default Closed: Reset	Normal Buzzer reset*
JP29	Open: Default Closed: Reset	Normal MG9071 chip reset

*The buzzer sound indicates that a condition requiring immediate attention has occurred.

The buzzer alarm is triggered by the following conditions:

1. Hard drive failure
2. Fan failure
3. System temperature over 45° Celcius.

I²C and SGPIO Modes and Jumper Settings

This backplane can utilize I²C or SGPIO. SGPIO is the default mode and can be used without making changes to your jumpers. The following information details which jumper must be configured to use SGPIO mode or restore your backplane to I²C mode.

Jumper Settings: SGPIO and I ² C (Default)		
Jumper	SGPIO Setting	I ² C Setting (Default)
JP33: CTRL_ID	Pins1-2: SGPIO mode enabled	2-3: I ² C mode enabled
JP40: I ² CRST_SDOOUT	On: SGPIO mode enabled	Off: I ² C mode enabled
JP42: BPID_SDIN	Pins 1-2: SGPIO mode enabled	2-3: I ² C mode enabled
JP50: I ² CRST	Off: SGPIO mode enabled	On: I ² C mode enabled

Jumper Settings: Backplane ID		
Jumper	I ² C Backplane ID Settings	
JP34: BP_ID	Pins 1-2: ID#0 (Default)	Pins 2-3: ID#1

Front LED Indicators

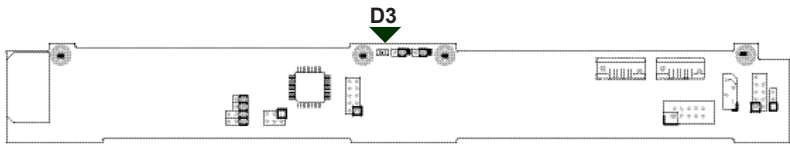


Figure C-3: Front LEDs

Front Panel LEDs		
LED	State	Specification
Alarm #1 (D3)	On	Overheat/drive failure.

C-8 Rear Connectors and LED Indicators

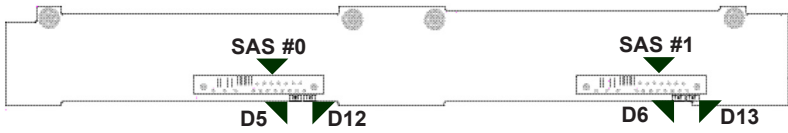


Figure C-4: Rear Connectors and LEDs

Rear SAS/SATA Connectors	
Rear Connector	SAS/SATA Drive Number
SAS #0 (J1)	SAS/SATA HHD #0
SAS #1 (J0)	SAS/SATA HHD #1

Rear LED Indicators		
Rear LED	Hard Drive Activity	Failure LED
SAS #0	D12	D5
SAS #1	D13	D6

Notes

Appendix D

SATA-810 Backplane Specifications

To avoid personal injury and property damage, carefully follow all the safety steps listed below when accessing your system or handling the components.

D-1 ESD Safety Guidelines

Electrostatic Discharge (ESD) can damage electronic components. To prevent damage to your system, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing a component from the antistatic bag.
- Handle the backplane by its edges only; do not touch its components, peripheral chips, memory modules or gold contacts.
- When handling chips or modules, avoid touching their pins.
- Put the card and peripherals back into their antistatic bags when not in use.

D-2 General Safety Guidelines

- Always disconnect power cables before installing or removing any components from the computer, including the backplane.
- Disconnect the power cable before installing or removing any cables from the backplane.
- Make sure that the backplane is securely and properly installed on the motherboard to prevent damage to the system due to power shortage.

D-3 An Important Note to Users

All images and layouts shown in this user's guide are based upon the latest PCB Revision available at the time of publishing. The card you have received may or may not look exactly the same as the graphics shown in this manual.

D-4 Introduction to the SATA-810 Backplane

The SATA-810 backplane has been designed to utilize the most up-to-date technology available, providing your system with reliable, high-quality performance.

This manual reflects SATA-810 Revision 2.0, the most current release available at the time of publication. Always refer to the Supermicro Web site at www.supermicro.com for the latest updates, compatible parts and supported configurations.

D-5 Front Connectors

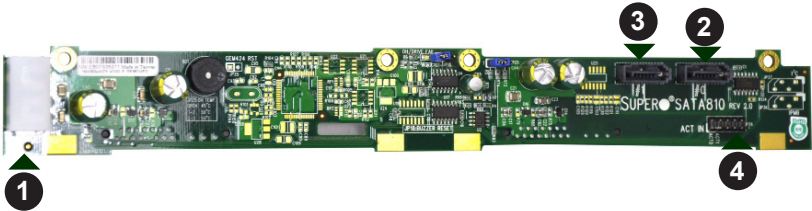


Figure D-1: Front Connectors

Front Connectors

1. Power connector: JP10
2. SATA cable connector #0: J5
3. SATA cable connector #1: J6
4. ACT_IN: JP26

D-6 Front Connector Definitions

1. Main Power Connector

The power connector is designated JP10. The main power connector provides power to the backplane.

2. - 3. SATA Cable Connectors

The SATA cable connectors are designated J5 and J6.

4. Activity LED Connector

The activity LED connector, designated JP26, is used to indicate the activity status of each SATA drive. The activity LED connector is located on the front panel. In order for the activity LED header to work properly, connect using a 10-pin LED cable.

SATA Activity LED Header Pin Definitions			
Pin # Definition		Pin # Definition	
1	ACT IN#0	6	ACT IN#4
2	ACT IN#1	7	ACT IN#5
3	ACT IN#2	8	ACT IN#6
4	ACT IN#3	9	ACT IN#7
5	Ground	10	Empty

D-7 Front Jumper Locations and Pin Definitions

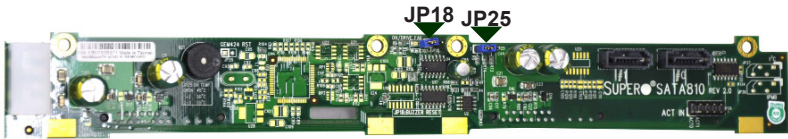
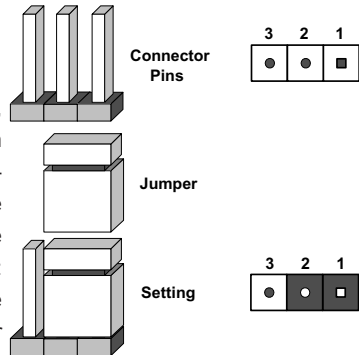


Figure D-2: Front Jumpers

Socket Settings		
Jumper	Setting	Note
JP18	Open: No reset (Default) Closed: Reset	Buzzer reset*
JP25	Open: 45° C Pins 1-2: 50° C (Default) Pins 2-3: 55° C	Overheat temperature setting

Explanation of Jumpers

To modify the operation of the backplane, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board. Note: On two pin jumpers, "Closed" means the jumper is on and "Open" means the jumper is off the pins.



*The buzzer sound indicates that a condition requiring immediate attention has occurred.

The buzzer alarm is triggered by the following condition:

System temperature over 50° Celsius.

Front LED Indicator

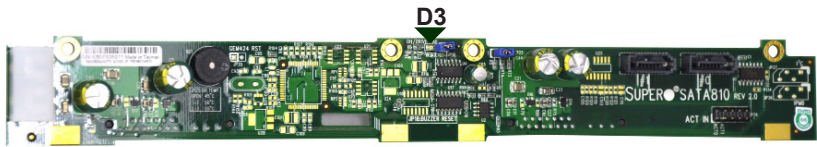


Figure D-3: Front LED

Front LED		
LED	Normal State	Indicator Status
Overheat LED: D3	Off	Red indicator light is on when an overheat condition occurs.

D-8 Rear Connectors and LED Indicators

Rear Connectors

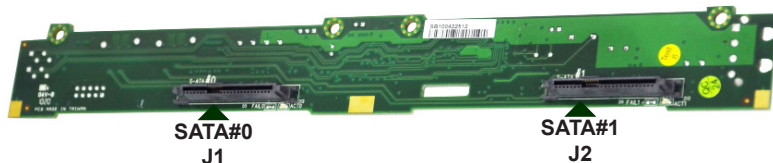


Figure D-4: Rear Connectors

Rear Connectors	
Rear Connector	SATA Drive Number
SATA #0 (J1)	SATA HDD #0
SATA #1 (J2)	SATA HDD #1

Rear LEDs



Figure D-5: Rear LEDs

Rear LED Indicators		
Activity LED	Designation	SATA Drive Number
ACT0	D12	SATA HDD #0
ACT1	D13	SATA HDD #1

Notes

Disclaimer (cont.)

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